



Examiner:

BAREFOOT, GALEN L.

Art Group:

3644

Applicant:

STALEY, Douglas A, et al.

Serial No.:

09/905,179

Confirmation No.:

2754

OCT 2 9 2002

FAX RECEIVED

Filed:

January 23, 2001

GROUP 3600

For:

SYSTEM AND METHOD FOR SPACECRAFT ATTITUDE CONTROL

BOX NON-FEE AMENDMENT

COMMISSIONER OF PATENTS Washington, D.C., 20231 U.S.A.

Dear Sir:

In response to the Official Action dated September 30, 2002, it is respectfully requested that this application be amended as follows:

IN THE CLAIMS

Please amend Claims 1, 5, 8 and 12 to read as follows:

1. (amended) In a momentum management system according to claim 22 wherein:

the gimbal assembly comprises a gimbal ring coupling the drive output to the rotor; and

the gimbal ring includes respective flexure joints connecting the gimbal ring to the drive and the rotor, the flexure joints being configured to permit the rotor to tilt about two flexure axes orthogonal to the drive axis, to incline the rotor axis through a range of angles from about 0 degrees to about 7 degrees with respect to the drive axis under the control of said torque generation device.

5. (amended) A momentum management system according to claim 22, the sensor comprising:

- a part spherical surface on the momentum wheel rotor;
- a pattern formed on the part spherical surface; and

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10-29-02

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				TOT
DATE	= - 		October 29, 2002	
PHO	NE: 204-957-4856	E-MAIL: thrift@aikins.com	FAX: 204-957-4401	
RE:	Applicant: Title: Examiner: Group:	Application No: SYSTEM AND METHOD FOR SPACE	TALEY, DOUGLAS A. ET AL. CECRAFT ATTITUDE CONTROL BAREFOOT, GALEN L	
	Confirmation No.:	***************************************	2754	

Response to Office Action dated SEPTEMBER 30, 2002.

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